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AC L2003

UV-Curable, High Refractive Index Optical Material for Lens Applications

Features

- High Tg
- High refractive index
- Good flow properties
- High Hardness

Description

- UV-Curable Adhesive

APPLICATIONS

Optical lens applications

TYPICAL PROPERTIES

Liquid	
Viscosity (cps, 25 °C)	6,500 – 8,300
Storage (°C)	15 to 25
Shelf life (20 - 25 °C)	6 months
Pot life (20 - 25 °C)	3 months
Cured film	
Shrinkage (linear, %)	< 0.3
Glass transition temperature (°C, DMA)	91
Hardness – Shore D	82
Refractive index of cured film (25°C)	
@ 486 nm	1.542
@ 589 nm	1.533
@ 656 nm	1.530
Coefficient of thermal expansion (TMA), 75 μm film	
below Tg ($x10^{-6}$), $°C^{-1}$	20
above Tg ($x10^{-6}$), $°C^{-1}$	123
Physical properties tested at 25°C, 50% RH (ASTM D638)	
Elongation (%)	14
Modulus, psi (kg/mm^2)	143,000 (100)
Operating temperature (°C)	-40 to 140
UV curing conditions	
Spot cure system – UV dose (J/cm^2),air	
250 – 450 nm filter	2.0 to 2.5
Flood cure system – UV dose (J/cm^2), air	0.6 to 1.0

* Minimum intensity recommended for Spot lamp system: 100 mW/cm^2
** Intensity recommended for Flood lamp system: 49 WPcm or 125 WPI

SAFETY AND HANDLING

The un-cured adhesive can be cleaned from apparatus with isopropyl alcohol (IPA), methyl ethyl ketone (MEK), or commercial alcohol based cleaning solution.

Use caution in handling this material. Avoid direct skin and eye contact. Use only in well ventilated areas. Use protective clothing, **gloves and safety goggles**. Read Material Safety Data Sheet before handling.

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